CentreCOM™ Multiport Fanout Models AT-280 AT-480

User Manual

STATEMENTS

U.S. Federal Communicatlon

Warning: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this installation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Note: Modifications or changes not expressly approved of by the manufacturer, can void your right to operate this equipment.

Danger: There are no “user-serviceable” parts inside the CentreCOM Multiport Fanout. Due to the danger of exposed high voltages, Do not operate or apply power to the micro repeaters when the cover is removed. This unit should be opened only by a trained and qualified technician.

Canadian Department of Communications

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the radio interference regulations of the Canadian Department of Communications.

Le présent appariel numérique n' émet pas de bruits radioélectriques dépassant les limites appicables aux appareils numériques de la Classe A. Prescrites dans le réglement sur le brouillage radioélectrique édicté par le minestére des Communications Du Canada.

U.L. Environmental

Caution: U.L. listed for use in other Environmental Air Spaces in Accordance with Article 300-22 (c) of the U.S.A. National Electrical Code.

Note: Product is not Plenum rated.

All Countries: Install in accordance with Local and National Electrical Codes.

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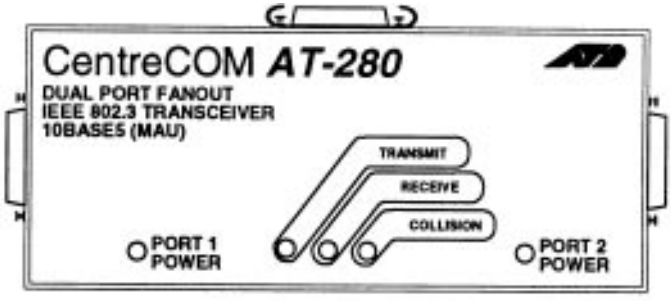
INTRODUCTION

This user manual covers the installation and troubleshooting of the CentreCOM Multiport Transceivers. If you encounter any problems or questions on the following procedures, call the Technical Support Department at (206) 821-2056 or fax (206) 821-6361. Read these instructions thoroughly before stating assembly.

The AT-280 and AT-480 transceivers are IEEE 802.3 compliant 10BASE5 transceiver Media Attachment Unit (MAW) fanouts. The AT-280 is a two port while the AT-480 is a four port transceiver fanout. Except for the number of ports, the two model function identically. These Ethernet transceiver fanout devices are powered by a Data Terminal Equipment (DTE) attached to any of the male Attachment Unit Interface (AUI) connections. Their function is similar to other multiport fanouts operating in the remote mode in that a transceiver MUST be attached to the 15 pin female AUI connection located at the top of the fanouts.



PREPARATION

SQE Test or Heartbeat

The AT-280 and AT-480 fanouts do not generate the Signal Quality Error (SQE)/ Heartbeat Test signal. If the a DTE to which the AT-280 or AT-480 is connected requires the SQE/Heartbeat function then place the SQE Test switch located on the external transceiver to the ON position.

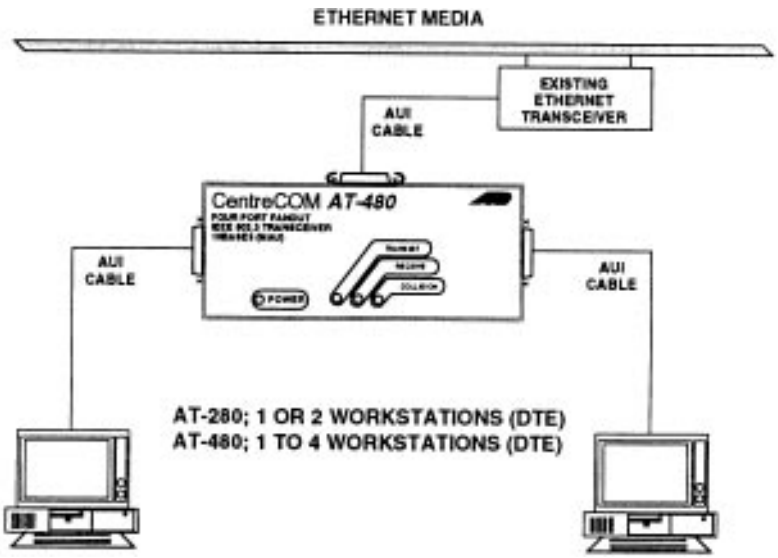
Heartbeat and Repeaters

Many times Ethernet repeaters do not want the Heartbeat function and, in fact, may cause excessive collisions if Heartbeat is enabled. It is recommended that the Heartbeat function is on the external transceiver is disabled whenever an AT-280 and AT-480 is connected to a repeater unit.

INSTALLATION

1. Installation of the AT-280 and AT-480 is as simple as connecting the AUI drop cable from the Ethernet transceiver into the female connector located at the top of the AT-280 or AT-480 fanout.
2. Attach additional AUI cables to the male AUI connectors and run them to the workstation or DTE. Only one AUI connection is necessary to power the AT-280 and AT-480 fanouts.
3. Power ON the DTE and check that the power indicator on the AT-280 and AT-480 is lit.
4. Now check that packets can be transmitted and received from the DTE to a host located on the network.

The IEEE 802.3 specification states that the maximum length of an AUI cable must not exceed 50 meters (164 ft.) For network reliability, these limits should not be exceeded.



INDICATORS

The AT-280 and AT-480 fanouts have four LEDs. They are as follows:

Power — Indicates that power is present from one of the DTE AUI ports.

Transmit — Indicates that packets are being transmitted to the external transceiver attached to the 15 pin connector located on the top of the fanout.

Receive — Flashes when packets are received from the external transceiver attached to the 15 pin connector located at the top of the fanout.

Collision — Indicates that collisions were detected by the external transceiver.

AUI Pinout

Pin No.	Signal Name	Pin No.	Signal Name
1	LOGIC GND	9	COL-
2	COL+	10	TX-
3	TX+	11	LOGIC GND
4	LOGIC GND	12	RX-
5	RX+	13	POWER+ 12VDC
6	POWER RETURN	14	LOGIC GND
7	N/C	15	N/C
8	LOGIC GND		

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